

**LISTING OF CLAIMS**

1. (Canceled)
2. (Canceled)
3. (Withdrawn) The method of Claim 1, further comprising:  
extracting product management information in a third form that is associated with a  
second source computerized product management system that is distinct from the  
first source computerized product management system;  
converting the product management information in the third form into product  
management information that is in the second intermediate form;  
converting the product management information in the second intermediate form into  
product management information in the target form; and  
using the product management information in the target form to perform at least one  
computer-implemented act from a set of computer-implemented acts comprising:  
creating a new product management record in the target computerized product  
management system; and  
updating an existing product management record in the target computerized  
product management system.
4. (Canceled)
5. (Previously Presented) The method of Claim 29, wherein each of the plurality of  
product elements comprises one or more elements selected from a group comprising:  
a product configuration element;  
a product identifier;  
a product base data element;  
a product sales data element;  
a related product line element for defining a product line element;  
a product list of price type element for defining a plurality of product price type elements;

a product list of related inventory location element for defining a plurality of product related inventory location elements for the product;  
a list of related product element for defining a plurality of related product elements;  
a product list of related business unit element for defining a product related business unit element; and  
a product custom data element.

6. (Previously Presented) The method of Claim 5, wherein the product base data element comprises one or more elements selected from a group comprising:

a product category code element;  
a product description element;  
an product effective end date element for defining a product's effective validity end date;  
an product effective start date element for defining a product's effective validity start date;  
a global product identifier element;  
a global product classification code element;  
a global product serial identifier;  
a global product special handling code element;  
a product name element;  
a product number element;  
a product part number element;  
a product status code element;  
a product type code element;  
a product unit of measure code element; and  
a product vendor part serial number element.

7. (Previously Presented) The method of Claim 5, wherein the product sales data element comprises one or more elements selected from a group comprising:

a product field replaceable flag;  
a product lead time element;  
a product maximum order quantity element;  
a product minimum order quantity element;  
a product revision number element;

- a product orderable flag;
- a sales product flag;
- a service product flag;
- a service instance flag; and
- a serialized product flag.

8. (Previously Presented) The method of Claim 5, wherein
- the product configuration data element comprises a product configuration flag and a product related class element that is specific to a product;
  - the product line element comprises a product line identifier, a product line base data element and a product line custom data element, wherein the product line base data element comprises:
    - a product line description element; and
    - a product line name element;
  - each of the plurality of product price type elements comprises a product price type code element;
  - each of the plurality of product related inventory location elements for the product comprises a product inventory location identifier and a product inventory data element for the product, wherein the product inventory data element for the product comprises one or more elements selected from:
    - a product inventory location classification data element, wherein the product inventory location classification data element comprises one or more elements selected from:
      - a product movement class code element; and
      - a product value class code element; and
    - a product inventory location stocking data element, wherein the product inventory location stocking data element comprises one or more elements selected from:
      - a product allocate below safety stock level flag;
      - a product auto substitute flag;
      - a product auto allocate flag;
      - a product maximum inventory level element;

a product minimum inventory level element; and

a product safety stock level element;

each of the plurality of related product elements comprises one or more elements selected from:

a related product identifier;

a related product name element;

a related product number element; and

a related product type code element; and

the product related business unit element comprises a product organization

identifier and a product business unit data element, wherein the product

business unit data element comprises a product sales unit of measure code element.

9. (Canceled)

10. (Canceled)

11. (Withdrawn) The computer-readable medium of Claim 26, further comprising:  
extracting product management information in a third form that is associated with a  
second source computerized product management system that is distinct from the  
first source computerized product management system;  
converting the product management information in the third form into product  
management information that is in the second intermediate form;  
converting the product management information in the second intermediate form into  
product management information in the target form; and  
using the product management information in the target form to perform at least one  
computer-implemented act from a set of computer-implemented acts comprising:  
creating a new product management record in the target computerized product  
management system; and  
updating an existing product management record in the target computerized  
product management system.

12. (Currently Amended) The computer-readable medium of Claim 26, wherein the ~~hierarchy of data elements~~ common set of product management information comprises a plurality of product elements which comprise other elements.

13. (Previously Presented) The computer-readable medium of Claim 12, wherein each of the plurality of product elements comprises one or more elements selected from a group comprising:

- a product configuration data element;
- a product identifier;
- a product base data element;
- a product sales data element
- a related product line element for defining a product line element;
- a product list of price type element for defining a plurality of product price type elements;
- a product list of related inventory location element for defining a plurality of product related inventory location elements for the product;
- a list of related product element for defining a plurality of related product elements;
- a product list of related business unit element for defining a product related business unit element; and
- a product custom data element.

14. (Previously Presented) The computer-readable medium of Claim 13, wherein the product base data element comprises one or more elements selected from a group comprising:

- a product category code element;
- a product description element;
- an product effective end date element for defining a product's effective validity end date;
- an product effective start date element for defining a product's effective validity start date;
- a global product identifier element;
- a global product classification code element;
- a global product serial identifier;
- a global product special handling code element;
- a product name element;
- a product number element;

- a product part number element;
- a product status code element;
- a product type code element;
- a product unit of measure code element; and
- a product vendor part serial number element.

15. (Previously Presented) The computer-readable medium of Claim 13, wherein the product sales data element comprises one or more elements selected from a group comprising:

- a product field replaceable flag;
- a product lead time element;
- a product maximum order quantity element;
- a product minimum order quantity element;
- a product revision number element;
- a product orderable flag;
- a sales product flag;
- a service product flag;
- a service instance flag; and
- a serialized product flag.

16. (Previously Presented) The computer-readable medium of Claim 13, wherein the product configuration data element comprises a product configuration flag and a product related class element that is specific to a product;

the product line element comprises a product line identifier, a product line base data element and a product line custom data element, wherein the product line base data element comprises:

- a product line description element; and
- a product line name element;

each of the plurality of product price type elements comprises a product price type code element;

each of the plurality of product related inventory location elements for the product comprises a product inventory location identifier and a product inventory data element for the product, wherein the product inventory data element for the product comprises one or more elements selected from:

a product inventory location classification data element, wherein the product inventory location classification data element comprises one or more elements selected from:  
a product movement class code element; and  
a product value class code element; and  
a product inventory location stocking data element, wherein the product inventory location stocking data element comprises one or more elements selected from:  
a product allocate below safety stock level flag;  
a product auto substitute flag;  
a product auto allocate flag;  
a product maximum inventory level element;  
a product minimum inventory level element; and  
a product safety stock level element;  
each of the plurality of related product elements comprises one or more elements selected from:  
a related product identifier;  
a related product name element;  
a related product number element; and  
a related product type code element; and  
the product related business unit element comprises a product organization identifier and a product business unit data element, wherein the product business unit data element comprises a product sales unit of measure code element.

17. (Withdrawn) A data structure for managing product, the data structure comprising a list of product element for defining a hierarchy of data elements, wherein the hierarchy of data elements includes a plurality of product elements which include other elements.

18. (Withdrawn) The data structure of Claim 17, wherein each of the plurality of product elements includes one or more elements selected from a group comprising:  
a product identifier;  
a product base data element;

- a product sales data element
- a product configuration data element;
- a related product line element for defining a product line element;
- a product list of price type element for defining a plurality of product price type elements;
- a product list of related inventory location element for defining a plurality of product related inventory location elements for the product;
- a list of related product element for defining a plurality of related product elements;
- a product list of related business unit element for defining a product related business unit element; and
- a product custom data element.

19. (Withdrawn) The data structure of Claim 18, wherein the product base data element includes one or more elements selected from a group comprising:

- a product category code element;
- a product description element;
- a product effective end date element for defining a product's effective validity end date;
- a product effective start date element for defining a product's effective validity start date;
- a global product identifier element;
- a global product classification code element;
- a global product serial identifier;
- a global product special handling code element;
- a product name element;
- a product number element;
- a product part number element;
- a product status code element;
- a product type code element;
- a product unit of measure code element; and
- a product vendor part serial number element.



20. (Withdrawn) The data structure of Claim 18, wherein the product sales data element includes one or more elements selected from a group comprising:

- a product field replaceable flag;
- a product lead time element;
- a product maximum order quantity element;
- a product minimum order quantity element;
- a product revision number element;
- a product orderable flag;
- a sales product flag;
- a service product flag;
- a service instance flag; and
- a serialized product flag.

21. (Withdrawn) The data structure of Claim 18, wherein the product configuration data element includes a product configuration flag and a

product related class element that is specific to a product;

the product line element includes a product line identifier, a product line base data element and a product line custom data element, wherein the product line base data element includes:

- a product line description element; and
- a product line name element;

each of the plurality of product price type elements includes a product price type code element;

each of the plurality of product related inventory location elements for the product includes a product inventory location identifier and a product inventory data element for the product, wherein the product inventory data element for the product includes one or more elements selected from:

- a product inventory location classification data element, wherein the product inventory location classification data element includes one or more elements selected from:
  - a product movement class code element; and
  - a product value class code element; and

a product inventory location stocking data element, wherein the product inventory location stocking data element includes one or more elements selected from:

- a product allocate below safety stock level flag;
- a product auto substitute flag;
- a product auto allocate flag;
- a product maximum inventory level element;
- a product minimum inventory level element; and
- a product safety stock level element;

each of the plurality of related product elements includes one or more elements selected from:

- a related product identifier;
- a related product name element;
- a related product number element; and
- a related product type code element; and

the product related business unit element includes a product organization identifier and a product business unit data element, wherein the product business unit data element includes a product sales unit of measure code element.

22 and 23. (Canceled)

24. (Currently Amended) A method in a computing system, the method comprising:

**defining a product common model, wherein**

**the defining comprises**

**determining a common set of fields of product management information,**

**each field of the common set of fields corresponds to a source field in a**

**source set of fields of product management information,**

**the source set of fields comprises**

**at least one source field that does not correspond to any field of the common set of fields,**

**the each field of the common set of fields further corresponds to a target field**

**in a target set of fields of product management information, and**

the target set of fields comprises

at least one target field that does not correspond to any field of the  
common set of fields;

extracting a ~~[[first]]~~ source set of product management information ~~in a first form~~,  
wherein

the ~~first form is associated with a first~~ source set is stored on a source  
computerized product management system,

the source set is stored within the source set of fields, and

the extracting is performed by an integration server coupled to the source  
computerized product management system;

converting the ~~[[first]]~~ source set of product management information ~~in the first form~~,  
wherein

the converting the ~~[[first]]~~ source set ~~of product management information in  
the first form~~ converts the ~~[[first]]~~ source set ~~of product management  
information in the first form~~ into a first set of product management  
information that is in a second intermediate form a common set of  
product management information,

the common set of product management information is stored within the  
common set of fields of the product common model, and

the converting the source set is performed by the integration server;

converting the ~~[[first]]~~ common set of product management information ~~in the second  
intermediate form~~, wherein

the converting the ~~[[first]]~~ common set ~~of product management information in  
the second intermediate form~~ converts the ~~[[first]]~~ common set ~~of  
product management information in the second intermediate form~~  
into a first set of product management information in a target form  
target set of product management information, [[and]]

the ~~first set of product management information in the target form~~  
corresponds to target set is stored on a target computerized product  
management system,

the target set is stored within the target set of fields, and

the converting the common set is performed by the integration server;

~~in response to the converting of the first set of product information into the target form, creating a new product record in the target computerized product management system;~~  
~~extracting a second set of product information in the first form;~~  
~~converting the second set of product management information in the first form, wherein~~  
~~the converting the second set of product management information in the first form converts the second set of product management information in the first form into a second set of product management information that is in the second intermediate form;~~  
~~converting the second set of product management information in the second intermediate form, wherein~~  
~~the converting the second set of product management information in the second intermediate form converts the second set of product management information in the second intermediate form into a second set of product management information in the target form;~~  
~~and~~  
~~in response to the converting the second set of product management information into the target form, performing an update of the new product management record in the target computerized product management system using the second set of product management information in the target form.~~

25. (Canceled)

26. (Currently Amended) A computer-readable medium ~~[[carrying]]~~ storing one or more sequences of instructions, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform:

defining a product common model, wherein

the defining comprises

determining a common set of fields of product management information,

each field of the common set of fields corresponds to a source field in a source set of fields of product management information,

the source set of fields comprises

at least one source field that does not correspond to any field of the common set of fields,

the each field of the common set of fields further corresponds to a target field in a target set of fields of product management information, and

the target set of fields comprises

at least one target field that does not correspond to any field of the common set of fields;

extracting a ~~[[first]]~~ source set of product management information ~~in a first form,~~  
wherein

the ~~first form is associated with a first~~ source set is stored on a source  
computerized product management system,

the source set is stored within the source set of fields, and

the extracting is performed by an integration server coupled to the source computerized product management system;

converting the ~~[[first]]~~ source set of product management information ~~in the first form into a first set of product management information that is in a second intermediate form , wherein~~

the converting the source set converts the source set into a common set of product management information,

the common set of product management information is stored within the common set of fields of the product common model, and

the converting the source set is performed by the integration server;  
converting the ~~[[first]]~~ common set of product management information ~~in the second intermediate form into a first set of product management information in a target form~~, wherein  
the converting the common set converts the common set into a target set of product management information,  
the ~~first set of product management information in the target form~~  
~~corresponds to~~ target set is stored on a target computerized product management system,  
the target set is stored within the target set of fields, and  
the converting the common set is performed by the integration server;  
~~in response to the converting of the first set of product management information into the target form, creating a new product management information record in the target computerized product management system;~~  
~~extracting a second set of product management information in the first form;~~  
~~converting the second set of product management information in the first form into a second set of product management information in the second intermediate form;~~  
~~converting the second set of product management information in the second intermediate form into a second set of product information in the target form; and~~  
~~in response to the converting the second set of product management information into the target form, performing an update of the new product management record in the target computerized product management system using the second set of product management information in the target form.~~

27. (Canceled)

28. (Currently Amended) A method in a computing system, the method comprising:  
synchronizing existing target product management information with first and  
second source product management information, wherein  
the existing target product management information is stored at a target  
computerized product management system,  
the first source product management information is stored at a first source  
computerized product management system,  
the second source product management information is stored at a second  
source computerized product management system,  
the synchronizing depends in part on a characteristic of product  
management information, wherein  
the characteristic allows a target record to be updated by an update  
from the plurality of source computerized product  
management systems,  
the synchronizing comprises  
extracting ~~a first set of~~ the first source product management information  
~~in a first form,~~ wherein  
the extracting the first source product management  
information is performed by an integration server, and  
the first source product management information is in one of a  
plurality of source formats,  
~~the first form is associated with a first source computerized~~  
~~product management system;~~  
converting the ~~first set of~~ first source product management information  
~~in the first form into an intermediate format,~~  
~~into a first set of product management information that is in a~~  
~~second intermediate form;~~  
extracting the second product management information, wherein  
the extracting the second source product management  
information is performed by the integration server, and

the second source product management information is in  
another of the plurality of source formats,  
converting the second source product management information into  
the intermediate format,  
integrating the converted first and second source product  
management information into integrated source product  
management information,

converting the ~~first set of~~ integrated source product management  
information ~~in the second intermediate form~~ into ~~a first set of~~  
target product management information ~~in a first target form~~  
~~and product management information in a second target form,~~  
wherein  
the target product management information is in a target  
format, and

updating the target computerized product management system with  
the target product management information, wherein  
the updating is performed by the integration server, and  
the existing target product management information comprises  
the target record.

~~the first target form is distinct from the second target form,~~  
~~the product management information in the first target form~~  
~~corresponds to a first target computerized product~~  
~~management system, and~~  
~~the product management information in the second target~~  
~~form corresponds to a second target computerized~~  
~~product management system;~~

~~in response to the converting of the first set of product management~~  
~~information into the first target form, creating a new product~~  
~~management information record in the first target computerized~~  
~~product management system;~~  
~~extracting a second set of product management information in the first form;~~



~~converting the second set of product management information in the first form into a second set of product management information that is in the second intermediate form;~~  
~~converting the second set of product management information in the second intermediate form into a second set of product management information in the first target form;~~  
~~in response to the converting the product management information into the first target form, performing an update of the new product management record in the first target computerized product management system using the second set of product management information in the first target form.~~

29. (Currently Amended) The method of Claim 24, wherein the ~~second intermediate form~~ common set of product management information comprises a plurality of product elements.

30. (New) The method of Claim 24, further comprising  
extracting a second source set of product management information, wherein  
the source computerized product management system is one of a plurality of  
source computerized management systems,  
a second source computerized product management system is another of the  
plurality of source computerized management systems,  
the second source set is stored on the second source computerized product  
management system, and  
the second source set is stored within a second source set of fields;  
converting the second source set of product management information, wherein  
the converting the second source set converts the second source set into a second  
common set of product management information; and  
integrating the second common set of product management information into the common  
set of product management information;